

Application No. 09/740,209

IN THE CLAIMS:

Please substitute amended claims 1, 6, 9, 11, 12, and 14 for pending Claims 1, 6, 9, 11, 12 and 14:

1. (Amended) An apparatus for delivering a pharmaceutical product comprising:

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a driver element to generate acoustic energy, the driver element designed to generate acoustic energy in pulses that are of a short duration and low frequency such that the droplet of pharmaceutical product is output due to capillary action;

an acoustic lens to focus the acoustic energy generated by the driver;

a delivery system to maintain the pharmaceutical product in a position to receive the acoustic energy from the acoustic lens and cause ejection of a droplet of pharmaceutical product.

6. (Amended) An apparatus for delivering a pharmaceutical product comprising:

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a driver element to generate acoustic energy;

an acoustic lens to focus the acoustic energy generated by the driver;

a delivery system to maintain the pharmaceutical product in a position to receive the acoustic energy from the acoustic lens and cause ejection of a droplet of pharmaceutical product;

a portable energy source to provide energy to the driver element;

a second driver element coupled to the portable energy source; and

a second acoustic lens to focus the energy generated by the second driver element, acoustic energy from the second acoustic lens to cause ejection of a second droplet of pharmaceutical product.

Please cancel claim 8.

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9. (Amended) The apparatus of claim 1 wherein the driver element is programmed to output acoustic energy at a frequency below 15 MHz.

Application No. 09/740,209

AS 11. (Amended) An apparatus for delivering a pharmaceutical product comprising:

a driver element to generate acoustic energy;

an acoustic lens to focus the acoustic energy generated by the driver;

a delivery system to maintain the pharmaceutical product in a position to receive the acoustic energy from the acoustic lens and cause ejection of a droplet of pharmaceutical product, the delivery system including a pressurization system that controls the pressure of the pharmaceutical product.

12. (Amended) An apparatus for delivering a pharmaceutical product comprising:

a driver element to generate acoustic energy;

an acoustic lens to focus the acoustic energy generated by the driver;

a delivery system to maintain the pharmaceutical product in a position to receive the acoustic energy from the acoustic lens and cause ejection of a droplet of pharmaceutical product; and

a sterilization mechanism that outputs ultraviolet energy to sterilize the acoustic lens.

14. (Amended) An apparatus to output pharmaceutical product for inhalation into the respiratory system of a patient, the apparatus comprising:

AL a portable energy supply;

at least one transducer coupled to the portable energy supply, the at least one transducer to output acoustic energy;

a plurality of lenses to receive and focus energy from the at least one transducer;

Application No. 09/740,209

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a delivery system to maintain a reservoir of pharmaceutical product, a distance from a top surface of a lens and a surface of the reservoir of pharmaceutical product is less than 150 micro meters, the reservoir of pharmaceutical product to receive energy from the plurality of lenses, the received energy to cause ejection of a plurality of droplets a distance from a top surface of a lens.

Please cancel claim 18.